

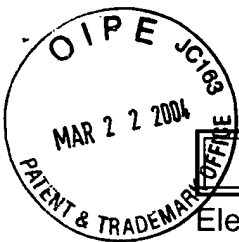


Electronic Filing System (EFS) Data  
Electronic Patent Application Submission  
USPTO Use Only

EFS ID: 57565  
Application ID: 10701387  
Title of Invention: METHOD AND APPARATUS FOR  
HEATING AND COOLING  
SUBSTRATES  
First Named Inventor: RATSON MORAD  
Domestic/Foreign Application: Domestic Application  
Filing Date: 2003-11-04  
Effective Receipt Date: 2004-03-22  
Submission Type: Information Disclosure  
Statement  
Filing Type:  
Confirmation number: 6359  
Attorney Docket Number: AMAT1717C3

Total Fees Authorized:

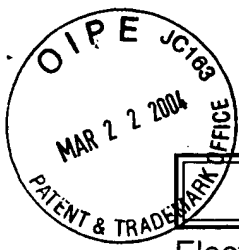
Digital Certificate Holder: cn=N. Alexander Nolte,ou=Registered Attorneys,ou=Patent and  
Trademark Office,ou=Department of Commerce,o=U.S. Government,c=US  
Certificate Message Digest: 9da05ae08332aa7f8d6d2d7d9311fba8c2bd2b61

**TRANSMITTAL**

Electronic Version v1.1

Stylesheet Version v1.1.0

<b>Title of Invention</b>	<b>METHOD AND APPARATUS FOR HEATING AND COOLING SUBSTRATES</b>									
Application Number: 10/701387 										
Date: 2003-11-04										
First Named Applicant: RATSON MORAD										
Confirmation Number: 6359										
Attorney Docket Number: AMAT1717C3										
<p>I hereby certify that the use of this system is for OFFICIAL correspondence between patent applicants or their representatives and the USPTO. Fraudulent or other use besides the filing of official correspondence by authorized parties is strictly prohibited, and subject to a fine and/or imprisonment under applicable law.</p> <p>I, the undersigned, certify that I have viewed a display of document(s) being electronically submitted to the United States Patent and Trademark Office, using either the USPTO provided style sheet or software, and that this is the document(s) I intend for initiation or further prosecution of a patent application noted in the submission. This document(s) will become part of the official electronic record at the USPTO.</p>										
<table border="1"><thead><tr><th>Submitted by:</th><th>Elec. Sign.</th><th>Sign. Capacity</th></tr></thead><tbody><tr><td>Mr. N. ALEXANDER NOLTE Registered Number: 45689</td><td>[MR. N. ALEXANDER NOLTE]</td><td>Attorney</td></tr></tbody></table>			Submitted by:	Elec. Sign.	Sign. Capacity	Mr. N. ALEXANDER NOLTE Registered Number: 45689	[MR. N. ALEXANDER NOLTE]	Attorney		
Submitted by:	Elec. Sign.	Sign. Capacity								
Mr. N. ALEXANDER NOLTE Registered Number: 45689	[MR. N. ALEXANDER NOLTE]	Attorney								
<table><tr><td>Documents being submitted</td><td>Files</td></tr><tr><td>us-ids</td><td>AMAT1717C3NAN-usidst.xml</td></tr><tr><td></td><td>us-ids.dtd</td></tr><tr><td></td><td>us-ids.xsl</td></tr></table>			Documents being submitted	Files	us-ids	AMAT1717C3NAN-usidst.xml		us-ids.dtd		us-ids.xsl
Documents being submitted	Files									
us-ids	AMAT1717C3NAN-usidst.xml									
	us-ids.dtd									
	us-ids.xsl									
<b>Comments</b>  NO FEE DUE - FILED BEFORE THE FIRST OA - 1 OF 3										



## ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

Title of Invention	METHOD AND APPARATUS FOR HEATING AND COOLING SUBSTRATES																																																																																																														
<p>Application Number: 10/701387</p> <p>Confirmation Number: 6359</p> <p>First Named Applicant: RATSON MORAD</p> <p>Attorney Docket Number: AMAT1717C3</p> <p>Search string: ( 3649509 or 3727620 or 3770598 or 4027686 or 4092176 or 4110176 or 4113492 or 4315059 or 4326940 or 4336114 or 4376685 or 4405416 or 4428815 or 4435266 or 4489740 or 4510176 or 4518678 or 4519846 or 4568431 or 4693805 or 4732785 or 4789445 or 4816098 or 4816638 or 5039381 or 5055425 or 5069760 or 5092975 or 5100516 or 5155336 or 5162260 or 5222310 or 5224504 or 5230743 or 20010030101 or 20020000271 or 20020022363 or 20020029961 or 20020037641 or 20020074233 ).pn.</p> <p><b>US Patent Documents</b></p> <p>Note: Applicant is not required to submit a paper copy of cited US Patent Documents</p> <table border="1"><thead><tr><th>init</th><th>Cite.No.</th><th>Patent No.</th><th>Date</th><th>Patentee</th><th>Kind</th><th>Class</th><th>Subclass</th></tr></thead><tbody><tr><td></td><td>1</td><td>3649509</td><td>1972-03-14</td><td>MORAWETZ, ET AL.</td><td></td><td></td><td></td></tr><tr><td></td><td>2</td><td>3727620</td><td>1973-04-17</td><td>ORR</td><td></td><td></td><td></td></tr><tr><td></td><td>3</td><td>3770598</td><td>1973-11-06</td><td>CREUTZ</td><td></td><td></td><td></td></tr><tr><td></td><td>4</td><td>4027686</td><td>1977-06-07</td><td>SHORTES, ET AL.</td><td></td><td></td><td></td></tr><tr><td></td><td>5</td><td>4092176</td><td>1978-05-30</td><td>KOZAI, ET AL.</td><td></td><td></td><td></td></tr><tr><td></td><td>6</td><td>4110176</td><td>1978-08-29</td><td>CREUTZ, ET AL. (DECEASED)</td><td></td><td></td><td></td></tr><tr><td></td><td>7</td><td>4113492</td><td>1978-09-12</td><td>SATO, ET AL.</td><td></td><td></td><td></td></tr><tr><td></td><td>8</td><td>4315059</td><td>1982-02-09</td><td>RAISTRICK, ET AL.</td><td></td><td></td><td></td></tr><tr><td></td><td>9</td><td>4326940</td><td>1982-04-27</td><td>ECKLES, ET AL.</td><td></td><td></td><td></td></tr><tr><td></td><td>10</td><td>4336114</td><td>1982-06-22</td><td>MAYER, ET AL.</td><td></td><td></td><td></td></tr><tr><td></td><td>11</td><td>4376685</td><td>1983-03-15</td><td>WATSON</td><td></td><td></td><td></td></tr><tr><td></td><td>12</td><td>4405416</td><td>1983-09-20</td><td>RAISTRICK, ET AL.</td><td></td><td></td><td></td></tr></tbody></table>								init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass		1	3649509	1972-03-14	MORAWETZ, ET AL.					2	3727620	1973-04-17	ORR					3	3770598	1973-11-06	CREUTZ					4	4027686	1977-06-07	SHORTES, ET AL.					5	4092176	1978-05-30	KOZAI, ET AL.					6	4110176	1978-08-29	CREUTZ, ET AL. (DECEASED)					7	4113492	1978-09-12	SATO, ET AL.					8	4315059	1982-02-09	RAISTRICK, ET AL.					9	4326940	1982-04-27	ECKLES, ET AL.					10	4336114	1982-06-22	MAYER, ET AL.					11	4376685	1983-03-15	WATSON					12	4405416	1983-09-20	RAISTRICK, ET AL.			
init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass																																																																																																								
	1	3649509	1972-03-14	MORAWETZ, ET AL.																																																																																																											
	2	3727620	1973-04-17	ORR																																																																																																											
	3	3770598	1973-11-06	CREUTZ																																																																																																											
	4	4027686	1977-06-07	SHORTES, ET AL.																																																																																																											
	5	4092176	1978-05-30	KOZAI, ET AL.																																																																																																											
	6	4110176	1978-08-29	CREUTZ, ET AL. (DECEASED)																																																																																																											
	7	4113492	1978-09-12	SATO, ET AL.																																																																																																											
	8	4315059	1982-02-09	RAISTRICK, ET AL.																																																																																																											
	9	4326940	1982-04-27	ECKLES, ET AL.																																																																																																											
	10	4336114	1982-06-22	MAYER, ET AL.																																																																																																											
	11	4376685	1983-03-15	WATSON																																																																																																											
	12	4405416	1983-09-20	RAISTRICK, ET AL.																																																																																																											

	13	4428815	1984-01-31	POWELL, ET AL.
	14	4435266	1984-03-06	JOHNSTON
	15	4489740	1984-12-25	RATTAN, ET AL.
	16	4510176	1985-04-09	CUTHBERT, ET AL.
	17	4518678	1985-05-21	ALLEN
	18	4519846	1985-05-28	AIGO
	19	4568431	1986-02-04	POLAN, ET AL.
	20	4693805	1987-09-15	QUAZI
	21	4732785	1988-09-15	QUAZI
	22	4789445	1988-12-06	GOFFMAN, ET AL.
	23	4816098	1989-03-28	DAVIS, ET AL.
	24	4816638	1989-03-28	UKAI, ET AL.
	25	5039381	1991-08-13	MULLARKEY
	26	5055425	1991-10-08	LEIBOVITZ, ET AL.
	27	5069760	1991-12-03	TSUKAMOTO, ET AL.
	28	5092975	1992-03-03	YAMAMURA, ET AL.
	29	5100516	1992-03-30	NISHIMURA, ET AL.
	30	5155336	1992-10-13	GRONET, ET AL.
	31	5162260	1992-11-10	LEIBOVITZ, ET AL.
	32	5222310	1993-06-29	THOMPSON, ET AL.
	33	5224504	1993-07-06	THOMPSON, ET AL.
	34	5230743	1993-07-27	THOMPSON, ET AL.

## US Published Applications

Note: Applicant is not required to submit a paper copy of cited US Published Applications

init	Cite.No.	Pub. No.	Date	Applicant	Kind	Class	Subclass
	1	20010030101	2001-10-18	BERNER, ET AL.			
	2	20020000271	2002-01-03	RITZDORF, ET AL.			
	3	20020022363	2002-02-21	RITZDORF, ET AL.			
	4	20020029961	2002-03-14	DORDI, ET AL.			
	5	20020037641	2002-03-28	RITZDORF, ET AL.			
	6	20020074233	2002-06-20	RITZDORF, ET AL.			

Signature

Examiner Name	Date



Electronic Filing System (EFS) Data  
Electronic Patent Application Submission  
USPTO Use Only

EFS ID: 57567

Application ID: 10701387



Title of Invention:

METHOD AND APPARATUS FOR  
HEATING AND COOLING  
SUBSTRATES

First Named Inventor: RATSON MORAD

Domestic/Foreign Application: Domestic Application

Filing Date: 2003-11-04

Effective Receipt Date: 2004-03-22

Submission Type: Information Disclosure  
Statement

Filing Type:

Confirmation number: 6359

Attorney Docket Number: AMAT1717C3

Total Fees Authorized:

Digital Certificate Holder: cn=N. Alexander Nolte,ou=Registered Attorneys,ou=Patent and  
Trademark Office,ou=Department of Commerce,o=U.S. Government,c=US  
Certificate Message Digest: bfd0c769ae481eede4142b51ec78e0746a4f7e98



# TRANSMITTAL

Electronic Version v1.1

Stylesheet Version v1.1.0


Title of Invention	METHOD AND APPARATUS FOR HEATING AND COOLING SUBSTRATES									
Application Number: 10/701387 										
Date: 2003-11-04										
First Named Applicant: RATSON MORAD										
Confirmation Number: 6359										
Attorney Docket Number: AMAT1717C3										
<p>I hereby certify that the use of this system is for OFFICIAL correspondence between patent applicants or their representatives and the USPTO. Fraudulent or other use besides the filing of official correspondence by authorized parties is strictly prohibited, and subject to a fine and/or imprisonment under applicable law.</p> <p>I, the undersigned, certify that I have viewed a display of document(s) being electronically submitted to the United States Patent and Trademark Office, using either the USPTO provided style sheet or software, and that this is the document(s) I intend for initiation or further prosecution of a patent application noted in the submission. This document(s) will become part of the official electronic record at the USPTO.</p>										
<table border="1"><thead><tr><th>Submitted by:</th><th>Elec. Sign.</th><th>Sign. Capacity</th></tr></thead><tbody><tr><td>Mr. N. ALEXANDER NOLTE Registered Number: 45689</td><td>[MR. N. ALEXANDER NOLTE]</td><td>Attorney</td></tr></tbody></table>			Submitted by:	Elec. Sign.	Sign. Capacity	Mr. N. ALEXANDER NOLTE Registered Number: 45689	[MR. N. ALEXANDER NOLTE]	Attorney		
Submitted by:	Elec. Sign.	Sign. Capacity								
Mr. N. ALEXANDER NOLTE Registered Number: 45689	[MR. N. ALEXANDER NOLTE]	Attorney								
<table><tr><td>Documents being submitted</td><td>Files</td></tr><tr><td>us-ids</td><td>AMAT1717C3NAN2-usidst.xml</td></tr><tr><td></td><td>us-ids.dtd</td></tr><tr><td></td><td>us-ids.xsl</td></tr></table>			Documents being submitted	Files	us-ids	AMAT1717C3NAN2-usidst.xml		us-ids.dtd		us-ids.xsl
Documents being submitted	Files									
us-ids	AMAT1717C3NAN2-usidst.xml									
	us-ids.dtd									
	us-ids.xsl									
<b>Comments</b>  NO FEE DUE - FILED BEFORE FIRST OA - 2 OF 3										



## ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

<b>Title of Invention</b>	<b>METHOD AND APPARATUS FOR HEATING AND COOLING SUBSTRATES</b>																																																																																																
<p>Application Number: 10/701387 </p> <p>Confirmation Number: 6359</p> <p>First Named Applicant: RATSON MORAD</p> <p>Attorney Docket Number: AMAT1717C3</p> <p>Search string: ( 5252807 or 5256274 or 5259407 or 5290361 or 5292393 or 5316974 or 5324684 or 5328589 or 5349978 or 5368711 or 5377425 or 5377708 or 5415890 or 5429733 or 5442235 or 5447615 or 5449447 or 5516412 or 5527739 or 5608943 or 5625170 or 5651865 or 5677244 or 5705223 or 5716207 or 5718813 or 5723028 or 5820692 or 5884009 or 6015749 or 6071388 or 6093291 or 6136163 or 6187152 or 6203582 or 6207005 or 6258220 or 6267853 or 6276072 or 6290865 or 6290933 or 6294059 or 6309520 or 6508920 ).pn.</p> <p><b>US Patent Documents</b></p> <p>Note: Applicant is not required to submit a paper copy of cited US Patent Documents</p> <table border="1"><thead><tr><th>init</th><th>Cite.No.</th><th>Patent No.</th><th>Date</th><th>Patentee</th><th>Kind</th><th>Class</th><th>Subclass</th></tr></thead><tbody><tr><td></td><td>1</td><td>5252807</td><td>1993-10-12</td><td>CHIZINSKY</td><td></td><td></td><td></td></tr><tr><td></td><td>2</td><td>5256274</td><td>1993-10-26</td><td>PORIS</td><td></td><td></td><td></td></tr><tr><td></td><td>3</td><td>5259407</td><td>1993-11-09</td><td>TUCHIDA, ET AL.</td><td></td><td></td><td></td></tr><tr><td></td><td>4</td><td>5290361</td><td>1994-03-01</td><td>HAYASHIDA, ET AL.</td><td></td><td></td><td></td></tr><tr><td></td><td>5</td><td>5292393</td><td>1994-03-08</td><td>MAYDAN, ET AL.</td><td></td><td></td><td></td></tr><tr><td></td><td>6</td><td>5316974</td><td>1994-05-31</td><td>CRANK</td><td></td><td></td><td></td></tr><tr><td></td><td>7</td><td>5324684</td><td>1994-06-28</td><td>KERMANI, ET AL.</td><td></td><td></td><td></td></tr><tr><td></td><td>8</td><td>5328589</td><td>1994-07-12</td><td>MARTIN</td><td></td><td></td><td></td></tr><tr><td></td><td>9</td><td>5349978</td><td>1994-09-27</td><td>SAGO, ET AL.</td><td></td><td></td><td></td></tr><tr><td></td><td>10</td><td>5368711</td><td>1994-11-29</td><td>PORIS</td><td></td><td></td><td></td></tr><tr><td></td><td>11</td><td>5377425</td><td>1995-01-03</td><td>KAWAKAMI, ET AL.</td><td></td><td></td><td></td></tr></tbody></table>		init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass		1	5252807	1993-10-12	CHIZINSKY					2	5256274	1993-10-26	PORIS					3	5259407	1993-11-09	TUCHIDA, ET AL.					4	5290361	1994-03-01	HAYASHIDA, ET AL.					5	5292393	1994-03-08	MAYDAN, ET AL.					6	5316974	1994-05-31	CRANK					7	5324684	1994-06-28	KERMANI, ET AL.					8	5328589	1994-07-12	MARTIN					9	5349978	1994-09-27	SAGO, ET AL.					10	5368711	1994-11-29	PORIS					11	5377425	1995-01-03	KAWAKAMI, ET AL.			
init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass																																																																																										
	1	5252807	1993-10-12	CHIZINSKY																																																																																													
	2	5256274	1993-10-26	PORIS																																																																																													
	3	5259407	1993-11-09	TUCHIDA, ET AL.																																																																																													
	4	5290361	1994-03-01	HAYASHIDA, ET AL.																																																																																													
	5	5292393	1994-03-08	MAYDAN, ET AL.																																																																																													
	6	5316974	1994-05-31	CRANK																																																																																													
	7	5324684	1994-06-28	KERMANI, ET AL.																																																																																													
	8	5328589	1994-07-12	MARTIN																																																																																													
	9	5349978	1994-09-27	SAGO, ET AL.																																																																																													
	10	5368711	1994-11-29	PORIS																																																																																													
	11	5377425	1995-01-03	KAWAKAMI, ET AL.																																																																																													

	12	5377708	1995-01-03	BERGMAN, ET AL.
	13	5415890	1995-05-16	KLOIDER, ET AL.
	14	5429733	1995-07-04	ISHIDA
	15	5442235	1995-08-15	PARRILLO, ET AL.
	16	5447615	1995-09-05	ISHIDA
	17	5449447	1995-09-12	BRANDERS
	18	5516412	1996-05-14	ANDRICACOS, ET AL.
	19	5527739	1996-06-18	PARRILLO, ET AL.
	20	5608943	1997-03-11	KONISHI, ET AL.
	21	5625170	1997-04-29	PORIS
	22	5651865	1997-07-29	SELLERS
	23	5677244	1997-10-14	VENKATRAMAN
	24	5705223	1998-01-06	BUNKOFSKE
	25	5716207	1998-02-10	MICHINA, ET AL.
	26	5718813	1998-02-17	DRUMMOND, ET AL.
	27	5723028	1998-03-03	PORIS
	28	5820692	1998-10-13	BAECKER, ET AL.
	29	5884009	1999-03-16	OKASE
	30	6015749	2000-01-18	LIU, ET AL.
	31	6071388	2000-06-06	UZOH
	32	6093291	2000-07-25	IZUMI, ET AL.
	33	6136163	2000-10-24	CHEUNG, ET AL.
	34	6187152	2001-02-13	TING, ET AL.
	35	6203582	2001-03-20	BERNER, ET AL.
	36	6207005	2001-03-27	HENLEY, ET AL.
	37	6258220	2001-07-10	DORDI, ET AL.
	38	6267853	2001-07-31	DORDI, ET AL.
	39	6276072	2001-08-21	MORAD, ET AL.
	40	6290865	2001-09-18	LLOYD, ET AL.
	41	6290933	2001-09-18	DURGA, ET AL.
	42	6294059	2001-09-25	HONGO, ET AL.
	43	6309520	2001-10-30	WOODRUFF, ET AL.
	44	6508920	2003-01-21	RITZDORF, ET AL.

Signature

Examiner Name	Date